

Site ID:		Stream Name:		
Latitude:		Longitude:		
Watershed:				
Date:	Time:	Investigators:		
Weather last 72 hours				
Description of Site Location				
Description of 100 meter assessed				
Predominant Surrounding Land Use				
Average Stream Widt	th:	Average Stream Depth:		
Stream Velocity (measured or defined as slow, moderate, or fast):				
Other Notes:				

Instructions:

- 1. Select 100-meter stretch to be evaluated. You may find it helpful to split the 100 meters up into easily definable sections for evaluation. Note the top and bottom of your stretch to be evaluated.
- 2. Review the 10 habitat parameters that you will be evaluating in this assessment.
- 3. Walk or otherwise visually inspect the entire 100-meter stretch to be evaluated. You may find it helpful to sketch your site on the graph paper provided, making note of the riffle areas, pools, runs, glides, and other features (log jams/debris, etc)
- 4. Begin the habitat assessment. You may want to use the graph paper to help estimate percentages needed to make the assessment. You may also want to use a process of elimination eliminating the condition categories that do not describe your site.
- 5. Add all of the sub scores together to get a final score at the bottom of page 4.



Site ID:		Stream Name:		
Latitude:		Longitude:		
Date:	Time:	Investigators:		
Habitat Parameter	Condition Category			
	Optimal	Suboptimal	Marginal	Poor
1. Epifaunal	Greater than 50%	30-50% mix of stable	10-30% mix of stable	Less than 10% stable
Substrate/	stable habitat; mix of	habitat; presence of	habitat; habitat	habitat; lack of
Available Cover	snags, submerged	additional substrate	availability less than	habitat is obvious;
(attachment sites	logs, undercut banks,	that may not yet be	desirable; substrate	substrate unstable or
for macro-	cobble or other stable	prepared for	frequently disturbed	lacking.
invertebrates and	habitat (logs and	colonization.	or removed.	
overhead cover for	snags are not new			
fishes)	fall).			
SCORE	18	13	8	3
Comments:				
2. Pool Substrate	Mixture of substrate	Mixture of soft sand,	All mud or clay or	Hard-pan clay or
Characterization	materials, with	mud, or clay; mud	sand bottom; little or	bedrock; no root mat
	gravel and firm sand	may be dominant;	no root mat; no	or vegetation.
	prevalent; root mats	some root mats and	submerged	
	and submerged	submerged	vegetation.	
~~~	vegetation common.	vegetation present.		
SCORE Comments:	18	13	8	3
3. Pool Variability	Even mix of large-	Majority of pools	Shallow pools much	Majority of pools
3. 1 001 variability	shallow, large-deep,	large-deep; very few	more prevalent than	small-shallow or
	small-shallow, small-	shallow.	deep pools.	
	deep pools present.	Silaliow.	deep pools.	pools absent.
SCORE	18	13	8	3
Comments:	10	13	O	3
4. Sediment Deposition	Little or no enlargement of islands or point bars and less than 20% of the bottom affected by sediment deposition.	Some new increases in bar formation, mostly from gravel, sand or fine sediment; 20-50% of the bottom affected; slight deposition in pools.	Moderate deposition of new gravel, sand or fine sediment on old and new bars; 50-80% of the bottom affected; sediment deposits at obstructions, constrictions, and bends; moderate deposition of pools prevalent.	Heavy deposits of fine material, increased bar development; more than 80% of the bottom changing frequently; pools almost absent due to substantial sediment deposition.
SCORE	18	13	8	3
Comments:				



Habitat Parameter	Condition Category				
	Optimal	Suboptimal	Marginal	Poor	
5. Channel Flow Status	Water reaches base of both banks, and minimal amount of channel substrate is exposed.	Water fills over 75% of the available channel; or less than 25% of channel substrate is exposed.	Water fills 25-75% of the available channel, and/or riffle substrates are mostly exposed.	Very little water in channel and mostly present as standing pools.	
SCORE	18	13	8	3	
6. Channel	Channel	Some channel	Channel	Banks covered with	
Alteration	straightening or dredging absent or minimal; stream with normal pattern	straightening present, usually in areas of bridges; evidence of past channelization, i.e., dredging, (greater than past 20 yr) may be present, but recent channelization is not present.	straightening may be extensive. Man-made materials – hard engineering, large rocks, cement channels, pipes, riprap, etc. present on both banks; and 40-80% of stream reach channelized and disrupted.	man-made materials including hard engineering, large rocks, cement channels, pipes, riprap, etc.; over 80% of reach channelized and disrupted. Instream habitat greatly altered or removed entirely.	
SCORE	18	13	8	3	
Comments:					

7. Channel	Channel is sinuous.	Channel is somewhat	Channel appears to	Channel is straight;
Sinuosity	The bends in the	sinuous.	have been somewhat	waterway has been
Siliuosity	stream increase the	The bends in the	modified and has low	channelized for a
	stream length 3 to 4	stream increase the	sinuosity.	long distance.
	times longer than if it	stream length	The bends in the	iong distance.
	was in a straight line.	2 to 3 times longer	stream increase the	
	(Note - channel	than if it was in a	stream length	
	braiding is	straight line.	1 to 2 times longer	
	considered normal in	Strangill init.	than if it was in a	
	coastal plains and		straight line.	
	other low-lying			
	areas. This parameter			
	is not easily rated in			
	these areas.)			
SCORE Comments:	18	13	8	3
~	18	13	8	3
~	Banks stable;	Moderately stable;	Moderately unstable;	Unstable; many
Comments:		Moderately stable; infrequent, small	-	J
Comments:  8. Bank Stability (score each bank)	Banks stable; evidence of erosion or bank failure	Moderately stable; infrequent, small areas of erosion	Moderately unstable;	Unstable; many eroded areas; "raw" areas frequent along
8. Bank Stability (score each bank) Note: determine left	Banks stable; evidence of erosion or bank failure absent or minimal.	Moderately stable; infrequent, small areas of erosion mostly healed over.	Moderately unstable; 30-60% of bank in	Unstable; many eroded areas; "raw" areas frequent along straight sections and
8. Bank Stability (score each bank)  Note: determine left or right side by	Banks stable; evidence of erosion or bank failure absent or minimal. Less than 5% of	Moderately stable; infrequent, small areas of erosion mostly healed over. 5-30% of bank in	Moderately unstable; 30-60% of bank in reach has areas of	Unstable; many eroded areas; "raw" areas frequent along straight sections and bends; obvious
8. Bank Stability (score each bank) Note: determine left	Banks stable; evidence of erosion or bank failure absent or minimal.	Moderately stable; infrequent, small areas of erosion mostly healed over. 5-30% of bank in reach has areas of	Moderately unstable; 30-60% of bank in reach has areas of	Unstable; many eroded areas; "raw" areas frequent along straight sections and bends; obvious wearing away of
8. Bank Stability (score each bank)  Note: determine left or right side by	Banks stable; evidence of erosion or bank failure absent or minimal. Less than 5% of	Moderately stable; infrequent, small areas of erosion mostly healed over. 5-30% of bank in	Moderately unstable; 30-60% of bank in reach has areas of	Unstable; many eroded areas; "raw" areas frequent along straight sections and bends; obvious wearing away of bank; 60-100% of
8. Bank Stability (score each bank)  Note: determine left or right side by	Banks stable; evidence of erosion or bank failure absent or minimal. Less than 5% of	Moderately stable; infrequent, small areas of erosion mostly healed over. 5-30% of bank in reach has areas of	Moderately unstable; 30-60% of bank in reach has areas of	Unstable; many eroded areas; "raw" areas frequent along straight sections and bends; obvious wearing away of bank; 60-100% of bank has erosional
8. Bank Stability (score each bank)  Note: determine left or right side by facing downstream	Banks stable; evidence of erosion or bank failure absent or minimal. Less than 5% of bank affected.	Moderately stable; infrequent, small areas of erosion mostly healed over. 5-30% of bank in reach has areas of erosion.	Moderately unstable; 30-60% of bank in reach has areas of erosion.	Unstable; many eroded areas; "raw" areas frequent along straight sections and bends; obvious wearing away of bank; 60-100% of bank has erosional scars.
8. Bank Stability (score each bank)  Note: determine left or right side by facing downstream  SCORELeft	Banks stable; evidence of erosion or bank failure absent or minimal. Less than 5% of bank affected.	Moderately stable; infrequent, small areas of erosion mostly healed over. 5-30% of bank in reach has areas of erosion.	Moderately unstable; 30-60% of bank in reach has areas of erosion.	Unstable; many eroded areas; "raw" areas frequent along straight sections and bends; obvious wearing away of bank; 60-100% of bank has erosional scars.
8. Bank Stability (score each bank)  Note: determine left or right side by facing downstream	Banks stable; evidence of erosion or bank failure absent or minimal. Less than 5% of bank affected.	Moderately stable; infrequent, small areas of erosion mostly healed over. 5-30% of bank in reach has areas of erosion.	Moderately unstable; 30-60% of bank in reach has areas of erosion.	Unstable; many eroded areas; "raw" areas frequent along straight sections and bends; obvious wearing away of bank; 60-100% of bank has erosional scars.



Habitat Parameter		Condition	1 Category	
	Optimal	Suboptimal	Marginal	Poor
9. Bank Vegetative	More than 90% of	70-90% of the	50-70% of the	Less than 50% of the
Protection	the streambank	streambank surfaces	streambank surfaces	streambank surfaces
(score each bank)	surfaces and	covered by	covered by	covered by
	immediate riparian	vegetation but one	vegetation; patches	vegetation;
	zone covered by	class (trees, shrubs,	of bare soil or	disruption of
	vegetation, including	grasses) of plants is	closely cropped	streambank
	trees, understory	not well represented.	vegetation common.	vegetation is very
	shrubs, wetland			high; vegetation has
	plants; vegetative			been removed to 5
	disruption through			centimeters (or less)
	grazing or mowing			in height – ex.
	minimal or not			Mowed or grazed.
222PP 4	evident.			4.5
SCORE Left	9	6.5	4	
				1.5
SCORE Right	9	6.5	4	1.5
SCORE Right				
SCORE Right Comments:	9	6.5	4	1.5
SCORE Right Comments:  10. Riparian	9 Width of riparian	6.5 Width of riparian	4 Width of riparian	1.5 Width of riparian
SCORE Right Comments:  10. Riparian Vegetative Zone	9 Width of riparian zone >18 meters;	Width of riparian zone 12-18 meters;	Width of riparian zone 6-12 meters;	1.5  Width of riparian zone <6 meters:
SCORE Right Comments:  10. Riparian Vegetative Zone Width (score each	Width of riparian zone >18 meters; human activities (i.e.,	Width of riparian zone 12-18 meters; human activities	Width of riparian zone 6-12 meters; human activities	Width of riparian zone <6 meters: little or no riparian
SCORE Right Comments:  10. Riparian Vegetative Zone Width (score each	9 Width of riparian zone >18 meters;	Width of riparian zone 12-18 meters; human activities have impacted zone	Width of riparian zone 6-12 meters; human activities have impacted zone a	1.5  Width of riparian zone <6 meters:
	Width of riparian zone >18 meters; human activities (i.e., parking lots, roads, clear-cuts, lawns, or	Width of riparian zone 12-18 meters; human activities	Width of riparian zone 6-12 meters; human activities	Width of riparian zone <6 meters: little or no riparian vegetation due to
SCORE Right Comments:  10. Riparian Vegetative Zone Width (score each	Width of riparian zone >18 meters; human activities (i.e., parking lots, roads,	Width of riparian zone 12-18 meters; human activities have impacted zone	Width of riparian zone 6-12 meters; human activities have impacted zone a	Width of riparian zone <6 meters: little or no riparian vegetation due to
SCORE Right Comments:  10. Riparian Vegetative Zone Width (score each	Width of riparian zone >18 meters; human activities (i.e., parking lots, roads, clear-cuts, lawns, or crops) have not	Width of riparian zone 12-18 meters; human activities have impacted zone	Width of riparian zone 6-12 meters; human activities have impacted zone a	Width of riparian zone <6 meters: little or no riparian vegetation due to

TOTAI	SCORE:	

What does this mean?

- You can compare the total score to itself each year.
- You may also want to compare the habitat score of your site to the habitat score at a "pristine" stream within your watershed.
- General habitat conditions:
  - o Total Score greater than 153 = Optimal Habitat Conditions
  - o Total Score between 130 and 152 = Suboptimal Habitat Conditions
  - o Total Score between 80 and 129 = Marginal Habitat Conditions
  - o Total Score less than 80 = Poor Habitat Conditions